

FACT SHEET

March 26, 2010

Applicant: Honorable Mark Piazza, Mayor
City of Abbeville
P.O. Box 1170
Abbeville, Louisiana 70511-1170

AI Number: AI 20132
Permit No.: LAJ0020132
TEMPO ID#: PER20090001

Application Type: Sewage Sludge & Biosolids Use or Disposal Permit – Land Application of a Class B Biosolids
Vermilion Parish

Permit Action:

Draft Sewage Sludge & Biosolids Use or Disposal Permit

Sewage Sludge Preparation Process:

According to the permit application, the sewage sludge preparation process is Solidification & dewatering/belt press followed by Alkaline Treatment/Lime Stabilization to produce a Class B Biosolids. The sewage sludge preparation process is located at 1908 East Lafayette Street, Abbeville, Vermilion Parish, Louisiana 70510.

Sewage Sludge & Biosolids Use or Disposal Option:

Land Application of a Class B Biosolids. The land application sites for the Class B Biosolids are as follows:

NAME OF SITE	LATITUDE	LONGITUDE	SECTION(S)	TOWNSHIP	RANGE
Joseph W. Falk Site	30° 20' 00"	92° 02' 00"	94	8 S	4 E
Freddie Lemaire, Jr. Site	30° 15' 45"	92° 09' 45"	15,16,21	9 S	3E

Other Pertinent Information

May 24, 2002: The City of Abbeville was issued Solid Waste Beneficial Use Permit P-0354 and is presently land applying its Class B Biosolids under the Solid Waste Permit.

January 30, 2008: In accordance with LAC 33:IX.7301.D.1.a.ii that requires the administrative authority to reissue a Louisiana Sewage Sludge and Biosolids Use or Disposal Permit to replace the Standard Solid Waste Beneficial Use Permit, the city of Abbeville was notified to submit a Sewage Sludge & Biosolids Use or Disposal Permit application. The letter requested that the city of Abbeville submit the permit application within sixty days of receipt of the letter.

October 23, 2008: The city of Abbeville did not reply nor submit a permit application to satisfy the notification mailed out to the City on January 30, 2008. In addition to several phone calls made to the city of Abbeville after expiration of the above indicated sixty day period, an email to a Mr. Morton of the city of Abbeville with an attached permit application; with a request for the city of Abbeville to submit a permit application.

October 27, 2008: Another email was sent out to a Mr. Schexnaider and a Mr. Joseph of the city of Abbeville. The email gave a date of December 9, 2008 for submittal of a permit application.

December 12, 2008: On or before the December 9, 2008 deadline, a phone call was made to personnel of the city of Abbeville inquiring about the application submittal and the city of Abbeville personnel was informed that if a permit application could not be submitted, the City needed to submit a letter requesting a time period for submittal of the permit application. The Water Permits Division was contacted by the consultant for the city of Abbeville via telephone call and the consultant indicated that the City was working on a permit application and was also adding another Class B Land Application site. The consultant also indicated that the time period needed for completion of the application would be approximately forty-five (45) days. Therefore, on **December 12, 2008**, the Water Permits Division received a letter dated December 10, 2008 from Mayor Mark Piazza requesting the 45-Day extension.

December 18, 2008: A letter granting the 45-Day extension for submittal of a Sewage Sludge & Biosolids Use or Disposal Permit Application was prepared and routed for review and signature.

February 10, 2009: A Sewage Sludge & Biosolids Use or Disposal Permit Application was received by the Water Permits Division. The application was submitted by Sellers & Associates, Inc. on behalf of the city of Abbeville.

March 13, 2009: Completed a once over review of the permit application submitted on **February 10, 2009**. However, an additional review of the soil data was needed for water table information.

March 19, 2009: Sellers & Associates, Inc. submitted, on behalf of the city of Abbeville, a notification for removal of the St. Julien Lachausee Property as a Class B Biosolids land application site.

March 20, 2009: The notification package was reviewed and was found to meet the requirements at LAC 33:IX.7303.N.2. However, a combination site visit and closure inspection needed to be scheduled before official closure of the site.

March 30, 2009: Completed the re-review of the soils information; thus, completing the application review process. **NOTE:** A site visit must be conducted by the Water Permits Division for the proposed Roy E. Young property located at LA Hwy. 696, Abbeville, Louisiana prior to any further permit action.

Based upon the review, it was determined that the response submitted contained areas of deficiencies or some clarification will be necessary prior to proceeding with the permit process. The deficiencies or clarifications needed are as follows:

1. **Specific Facility Information Section - q:** The diagram in Appendix C indicates an "Aerated Sludge Thickener"; therefore, "Solidification & De-watering" should be checked (✓) and the appropriate information regarding the "Aerated Sludge Thickener" submitted in **APPENDIX SPECIFIC FACILITY INFO – S & D/W (Appendix C of the permit application.)**.

Alkaline Treatment/Lime Stabilization is indicated as one of the sewage sludge treatment process. One of the requirements of Alkaline Treatment/Lime Stabilization is that each and every particle of sewage sludge must be maintained at a pH of 12 until the resulting Class B Biosolids are land applied. The material presented in Appendix E of the permit application is unclear as to whether or not this requirement is achieved or how it is achieved. Therefore, please provide clarification and additional information as to how the requirement is achieved and maintained.

2. **Disposal or Land Application Section:** The response indicates that a "Non-exceptional quality (Class B) Biosolids will be land applied. However, the amount in Tons/Year is not indicated as part of the response. Please indicate the amount of Non-exceptional Quality (Class B) Biosolids that will be produced at the facility on an annual basis (Tons/Year on a dry weight basis).
3. **Land Application Section - u:** According to the information provided in Appendix K of the permit application, the storage time will be utilized to lower the pH of the sewage sludge. Please note that the pH of the Class B Biosolids must be kept at a pH of 12 up until the time that it is land applied. Therefore, storage time cannot be utilized to lower the pH of the finished Class B Biosolids. Please make the necessary changes to the wording in Appendix K to reflect not utilizing storage time to lower the pH of the Class B Biosolids.
4. **Appendix Specific Facility Info – Other Requirements:** The response in Appendix D of the permit application regarding "Odor Control" is not sufficient. Alkaline treated or Lime stabilized sewage sludge (Alkaline Class B Biosolids) have been documented to produce odors both in storage and out at the land application site. Therefore, please expand on the response that if odors should arise, the sludge would be handled accordingly to prevent or abate odors. What procedure would be followed to abate odors?
5. **Appendix Specific Facility Info – POTW O & P:** The information submitted in Appendix E of the permit application for Operations & Procedures is insufficient for Biosolids handling during the land application process. Therefore, please provide the necessary information for Biosolids handling procedures during the land application process (NOTE: Guidance for proper employee handling of a Class B Biosolids can be obtained from the Center for Disease Control publication "Guidance for Controlling Potential Risks to Workers Exposed to Class B Biosolids, July 2002". The CDC document can be accessed at the following Internet Site → <http://www.cdc.gov/niosh/docs/2002-149/pdfs/2002-149.pdf>.

Additional, material on how to keep records for and at each land application site for each land application event must be furnished.

Also, submit material on how the spreaders will be calibrated and how the land applier will be trained on the proper procedures for calibration of the spreaders.

In the past, the city of Abbeville has not been consistently submitting the proper reports to LDEQ. Therefore, proper wording must be included in the Operations & Procedures Manual for proper records keeping and reporting. Please be aware that the new reporting forms are different than the information that was requested under the Solid Waste Beneficial Use Permit.

When handling or referring to Sewage Sludge and/or Biosolids, the references to "Solid Waste or Solid Waste Division" in **Appendix E:4 – EMERGENCY/TRAINING PLAN** of the permit application need to be changed to "Water Permits Division" and change the Division contact phone number from "(225) 765-0249" to "(225) 219-3181".

Change all references of "Beneficial Use Permit" to "Sewage Sludge and Biosolids Use or Disposal Permit"

Change the contact address and telephone number for Sewage Sludge and/or Biosolids to the following:

**Louisiana Department of Environmental Quality
Office of Environmental Services – Water Permits Division
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313
(225) 219-3181**

6. **Appendix Land Application – Equipment:** The information provided in **Appendix K – Equipment & Storage of Biosolids** of the permit application indicates that the Biosolids will be stored on the drying beds to reduce the pH value. Please note that the pH of the Class B Biosolids must be kept at a pH of 12 up until the time that it is land applied. Therefore, storage time cannot be utilized to lower the pH of the finished Class B Biosolids. Please make the necessary changes to the wording in Appendix K to reflect not utilizing storage time to lower the pH of the Class B Biosolids (See Number 3 above.).
7. **Appendix Land Application – Corps of Engineers:** A copy of the response letter from the Corps of Engineers must be provided.

April 08, 2009: The Additional Information package was routed for review and signature.

April 13, 2009: The Additional Information Letter was mailed out to the city of Abbeville.

May 20, 2009: Sellers & Associates, Inc., on behalf of the city of Abbeville, submitted a response to the Additional Information Letter of **April 13, 2009**.

July 21, 2009: Both a pre-permit site visit for the addition of a new Class B Land Application site (Roy Young Property) and the removal of a previous Class B Land Application site (St. Julien Site) was conducted by personnel of the Water Permits Division and of the Acadiana Regional Office. During this site visit, it was determined that portions of the Roy Young property was being utilized for crawfish production and also had a large amount of wetlands. Additionally, it was determined that the actual procedure for holding time for the sewage sludge after the application of an alkaline material for treatment was not sufficient to meet the regulatory requirements.

September 8, 2009: Based upon the **July 21, 2009** site visit, Sellers & Associates, Inc., on behalf of the city of Abbeville, submitted updated information that indicates that the city of Abbeville will not add or utilize the Roy Young property and addressed the problem of holding time.

November 9, 2009: Being that the closure request notification package of **March 20, 2009** for the St. Julien Lachausee Property met the requirements at LAC 33:IX.7303.N.2, as per LAC 33:IX.7303.N.3; and, the site visit/closure inspection of July 21, 2009 showed the site to be approvable for closure, a letter rendering the Department's decision was prepared and routed for review.

November 19, 2009: LDEQ/OES/Water Permits Division mailed out the Final Decision that LDEQ had no objections for the removal of the St. Julien Lachausee Property as a Class B Land Application site for the city of Abbeville.

March 26, 2010: The information submitted in the original permit application of **February 10, 2009**, the additional information submitted on **May 20, 2009** and on **September 8, 2009** is sufficient to draft a Sewage Sludge & Biosolids Use or Disposal Permit; therefore, a Draft Sewage Sludge & Biosolids Use or Disposal Permit Package was initiated.

The Draft Permit contains the following:

Pollutant Requirements

This Permit does not establish requirements for the use or disposal of sewage sludge that is hazardous under 40 CFR Part 261 and/or LAC 33:Part V. The permittee must take all steps to assure that any material prepared with sewage sludge is non-hazardous in accordance with 40 CFR Part 261 and/or LAC 33:Part V. Additionally, the Permit does not establish requirements for the use or disposal of sewage sludge with a concentration of polychlorinated biphenyls (PCBs) equal to or greater than 50 milligrams per kilogram of total solids (dry weight basis).

Class B Biosolids shall not be applied to the city of Abbeville Beneficial Use Class B Biosolids Land Application site if the concentration of any pollutant in the Class B Biosolids exceeds the ceiling concentration indicated for the pollutants listed in Table II-1 of the permit.

Ceiling Concentrations	
Pollutant	Ceiling Concentration (milligrams per kilogram)
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500
¹Dry weight basis	

The concentration for each pollutant in the Class B Biosolids shall not exceed the concentration for the pollutants in Table II-2 of the permit prior to land application at the city of Abbeville Beneficial Use Class B Biosolids Land Application site as indicated below:

Pollutant Concentrations	
Pollutant	Monthly Average Concentration (milligrams per kilogram) ¹
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Nickel	420
Selenium	100
Zinc	2800
¹ Dry weight basis	

Pathogen Control

Pathogen reduction requirements shall be achieved through the Class B Alternative indicated in Table II-3 of the permit prior to land application at the city of Abbeville Beneficial Use Class B Biosolids Land Application site as indicated below:

PATHOGEN REDUCTION	
NAME OF FACILITY	CLASS B ALTERNATIVE
City of Abbeville Wastewater Treatment Facility	<p>Alternative 2 - As allowed by LAC 33:IX.7309.C.2.c and as described in LAC 33:IX.7399.A.5 (Appendix L)</p> <p>Lime Stabilization – Sufficient lime is added to the sewage sludge to raise the pH of the sewage sludge to 12 after two hours of contact.</p>

Vector Attraction Reduction

Vector Attraction Reduction requirements shall be achieved through the Procedure indicated in Table II- 4 of the permit:

VECTOR ATTRACTION REDUCTION	
NAME OF FACILITY	PROCEDURE
City of Abbeville Wastewater Treatment Facility	<p>Alkaline Treatment – As allowed by LAC 33:IX.7309.D.2.d</p> <p>The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali, shall remain at 12 or higher for two hours and then 11.5 or higher for an additional 22 hours.</p>

Sampling & Analysis and Monitoring Requirements

The permittee shall sample and analyze representative samples of the **untreated** sewage sludge and of any material, except Agricultural Grade Lime, that is to be added, blended, or mixed with the sewage sludge during the preparation of the Class B Biosolids at the city of Abbeville's generation/preparation/treatment facility listed in Table I-1 of Part I of the permit for the parameters listed and at the frequency indicated in Table II-6 of the permit and as indicated in the Table that follows:

Raw Sewage Sludge and Materials ^{1/} Added, Blended, or Mixed with the Sewage Sludge (Hazardous Characteristics Testing)	
Parameter	Sampling Frequency
<u>TCLP</u> Metals (As, Ba, Cd, Cr, Pb, Se, Ag) Hg Volatile Organics Semi-Volatile Organics Pesticides Herbicides	Once/Year
PCB (Total)	Once/Year

^{1/}Any material, except Agricultural Grade Lime, that is to be added, blended, or mixed with the sewage sludge must be sampled and tested prior to adding, blending, or mixing with the sewage sludge.

b. The permittee shall sample and analyze representative samples of the Class B Biosolids prepared by the city of Abbeville's generator/preparation/treatment facility listed in Table I-1 in Part I of the permit for the parameters listed in and at the frequency indicated in Table II-7 of the permit, as indicated in the Table that follows, prior to the land application of the Class B Biosolids:

Class B Biosolids (Pollutants/Pathogen/Vegetation/Attraction/Reduction/Testing)		
Outfall Number	Parameter(s)	Sampling Frequency
201	1. Pathogens 2. Arsenic 3. Cadmium 4. Copper 5. Lead 6. Mercury 7. Molybdenum 8. Nickel 9. Selenium 10. Zinc 11. pH 12. Total Solids	Once/Quarter (four times per year)

c. The permittee shall sample and analysis the soils at each of the City of Abbeville's Beneficial Use Land Application sites listed in Table I-2 in Part I of the permit for the parameters listed in Table II-8 of the permit; as listed in the Table that follow:

SOIL SAMPLING REQUIREMENTS	
PARAMETERS TO SAMPLE	SAMPLING FREQUENCY
1. Total Kjeldahl nitrogen 2. Total nitrates 3. Total nitrites 4. Total phosphorus 5. Total potassium 6. pH	Once/Year Or If double cropping is practiced, prior to the planting of each crop.

d. All samples and measurements taken for the purpose of laboratory analysis shall be representative of the monitored activity and shall be in accordance with the methods referenced in LAC 33:IX.7301.I.

General and Other Management Practices

a. The Class B Biosolids applied at the city of Abbeville Beneficial Use Class B Biosolids Land Application site shall only be applied at a whole Biosolids application rate that is equal to or less than the Agronomic Rate of **6.37 tons/acre/year (dry wt. basis)** at each of the city of Abbeville's Beneficial Use Class B Biosolids Land Application site.

b. The Class B Biosolids shall be applied to the land in accordance with the slope requirements in Table II-5 below at the city of Abbeville Beneficial Use Class B Biosolids Land Application site:

Table II-5	
Slope Limitations for Land Application of Class B Biosolids	
Slope Percent	Slope Limitations
0-3	None, except drainage to prevent standing water shall be provided.

c. Class B Biosolids having a concentration of PCBs equal to or greater than 10 mg/kg of total solids (dry wt.) must be incorporated into the soil regardless of slope.

d. Class B Biosolids shall only be applied at a distance that is greater than 300 feet from a Private Potable Water Supply at any of the city of Abbeville's Beneficial Use Class B Biosolids Land Application site.

e. Class B Biosolids shall only be applied at a distance that is greater than 300 feet from a Public Potable Water Supply (Includes a ground water well, surface water intake, treatment plant, elevated storage, and ground storage tank.) at any of the city of Abbeville's Beneficial Use Class B Biosolids Land Application site.

f. Class B Biosolids shall only be applied at a distance that is greater than 100 feet from a property boundary at any of the city of Abbeville's Beneficial Use Class B Biosolids Land Application site.

g. Class B Biosolids shall be applied at a distance that is greater than 200 feet from an established institution at the city of Abbeville's Beneficial Use Class B Biosolids Land Application site that was permitted under the Solid Waste Beneficial Use Biosolids Permit that was issued on May 24, 2002. For all new or future city of Abbeville Beneficial Use Class B Biosolids Land Application sites, the Class B Biosolids shall be applied at a distance that is greater than 1,000 feet from an established institution.

h. Class B Biosolids shall be applied at a distance that is greater than 200 feet from an occupied residential home or structure at the city of Abbeville's Beneficial Use Class B Biosolids Land Application site that was permitted under the Solid Waste Beneficial Use Biosolids Permit that was issued on May 24, 2002. For all new or future city of Abbeville Beneficial Use Class B Biosolids Land Application sites, the Class B Biosolids shall be applied at a distance that is greater than 500 feet from an occupied residential home or structure.

i. Class B Biosolids shall not be applied to the city of Abbeville's **Lemaire Property** Beneficial Use Class B Biosolids Land Application site during the months of **December through April** when the water table is less than or at two feet below the soil surface or some form of monitoring

device shall be provided to ensure that the annual high water table is greater than two feet below the soil surface during a land application event.

j. Class B Biosolids shall not be applied to the city of Abbeville's **Faulk Property** Beneficial Use Class B Biosolids Land Application site during the months of **December through May** when the water table is less than or at two feet below the soil surface or some form of monitoring device shall be provided to ensure that the annual high water table is greater than two feet below the soil surface during a land application event.

k. The following must be reviewed and, if necessary, reestablished or recalculated on an annual basis; or, if double cropping is practiced, prior to each crop being planted:

- Agronomic Rate determination
- Spreading/Application rate determination

l. Class B Biosolids shall not be applied to the city of Abbeville's Beneficial Use Class B Biosolids Land Application site if the Class B Biosolids is likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat.

m. Class B Biosolids shall not be applied to any of the city of Abbeville's Beneficial Use Class B Biosolids Land Application site if the site is flooded, frozen, or snow-covered so that the Class B Biosolids enters a *wetland* or other *waters of the state*, except as provided in a permit issued in accordance with Section 402 or 404 of the CWA.

n. Class B Biosolids shall not be applied 33 feet (10 meters) or less from any *waters of the state* at any of the city of Abbeville Beneficial Use Class B Biosolids Land Application site, unless otherwise specified by the permitting authority.

o. Class B Biosolids shall not be applied to any of the city of Abbeville's Beneficial Use Class B Biosolids Land Application site if the Class B Biosolids would affect a property that either is listed on, or is eligible for listing on, the National Historic Register.

Site Restrictions

a. Food crops with harvested parts that touch the Class B Biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of Biosolids.

b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B Biosolids when the Class B Biosolids remains on the land surface for four months or longer prior to incorporation into the soil.

- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B Biosolids when the Class B Biosolids remains on the land surface for less than four months prior to incorporation into the soil.
- d. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of Biosolids.
- e. Turf grown on land where Class B Biosolids are applied shall not be harvested for one year after application of the Class B Biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
- f. Animals shall not be grazed on the land for 30 days after application of Class B Biosolids.
- g. Public access to land with a high potential for public exposure shall be restricted for one year after application of Class B Biosolids. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of Class B Biosolids.
- i. Signs shall be posted at all entrances to the city of Abbeville Beneficial Use Class B Biosolids Land Application Site having at the minimum the following information:
- Name of Land Application Site or Facility
 - Wording that indicates that the area is a Biosolids Land Application Site
 - Emergency contact telephone numbers.

Odors

The production of odors at each of the City of Abbeville Beneficial Use Land Application site shall be controlled or minimized.

Reporting Requirements

- a. The permittee shall submit reports to the Administrative Authority the forms specified by the Administrative Authority as indicated below:
- i. The annual amount of sewage sludge generated at the facility shall be reported on February 28th of each year.
- ii. The annual amount of sewage sludge that is prepared into a Class B Biosolids shall be reported on February 28th of each year.
- iii. The annual amount of Class B Biosolids that is land applied shall be reported on February 28th of each year.

iv. For the parameters listed in Tables II-6 and II-8 of the permit, the reporting due date is as indicated in Table II-9 of the permit; as indicated in the Table that follows:

Reporting Land Application	
Monitoring Period (Once per Year)	Report Due Date
January - December	February 28

v. The following certification statements shall be a part of each report required in G.2.a.i - G.2.a.iv of Part II of the permit:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."

vi. For the parameters listed in Tables II-7 of the permit, the reporting due date is as indicated in Table II-10 of the permit; as indicated in the Table that follows:

Reporting Land Application	
Monitoring Period (Once per Quarter)	Report Due Date
January, February, March	August 28
April, May, June	
July, August, September	February 28
October, November, December	
¹Separate reports must be submitted for each monitoring period.	

vii. The following certification statements shall be a part of each report required in G.2.a.vi of Part II of the permit:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."

"I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements of E.2 of Part II of the permit and the vector attraction

reduction requirements of E.3 of Part II of the permit was prepared under my direction and supervision in accordance with the system as described in the permit application, designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

"I certify, under penalty of law, that the information that will be used to determine compliance with the General and Other Management Practices in E.4 of Part II of the permit and the Site Restrictions in E.5 of Part II of the permit was prepared for each site on which bulk Class B Biosolids are applied under my direction and supervision in accordance with the system as described in the permit application, designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

b. If the permittee monitors any pollutant, in accordance with applicable test procedures specified in the permit, more frequently than required by the permit, then the results of this monitoring shall be reported to the Administrative Authority on the forms specified by the Administrative Authority.

Other Requirements:

Procedure for the Addition or Removal of Land Application Sites

1. To add a land application site or sites to the permit, a request package containing the information that follows shall be submitted to the administrative authority:

- evidence of notification of the landowners bordering the proposed land application site or sites. The notification shall be in the form of a public notice placed in the local newspaper being circulated in the area of the proposed site or sites, certified letters of notification that were either hand delivered or mailed to the landowners bordering the proposed site or sites, or signed agreements of the landowners bordering the proposed site or sites to application of Biosolids to the site or sites;
- signed agreement(s) to the land application of Biosolids from the landowner(s) of the proposed site or sites; and,
- a completed Sewage Sludge and Biosolids Use or Disposal Permit application form.

2. To remove a land application site or sites from the permit, the person shall submit a request package to the administrative authority at least 90 days prior to the removal of the site or sites containing the following information:

- aerial photographs showing the location of the land application site or sites that are being proposed to be removed;
- certification that all Biosolids that were stored at the site or sites have either been land applied in accordance with the permit requirements or totally removed and used at another site in accordance with the permit requirements or removed and disposed at a

- permitted landfill; and,
- signed agreements from the landowner(s) of the site or sites for the site or sites to be removed from the land application of Biosolids.

3. After receipt and review of the request package required in Paragraph I.1 for the addition of a land application site or sites or the request package required in Paragraph I.2 for the removal of a land application site or sites, a decision shall be rendered by the administrative authority regarding the request.

Certification Requirements

1. Either (a) the permittee who was employed at the facility described in Part I of the permit on or after November 20, 2007 or (b) at least one of the employees who became employed at the facility describe in Part I of the permit on or after November 20, 2007 and are under the supervision of the permittee shall obtain, at a minimum, a Class III Wastewater Treatment Operator Certification.

2. If the permittee or the employees under the supervision of the permittee of the facility described in Part I of the permit (a) does not presently possess the minimum Wastewater Treatment Operator Certification indicated above and (b) was employed before November 20, 2007, the requirement in Number 1 above does not apply.

3. If the Louisiana Department of Health & Hospitals (LDHH) requires a class level for Wastewater Treatment Operator Certification higher than the class level indicated in 1 above, the class level indicated in 1 above shall be superseded by the LDHH requirement and the permittee shall abide by the LDHH requirement.

4. To maintain certification, a minimum of 16 contact hours of continuous education are required for each certificate held during the previous two-year certification period. Classes, seminars, conferences, or conventions used for units shall be approved by the administrative authority.

March 30: The Draft Sewage Sludge and Biosolids Use or Disposal Permit Package was routed for review and approval.

Prepared By: J. Kilren Vidrine, ES-Staff, R.S.
Water Permits Division

SEWAGE SLUDGE & BIOSOLIDS REPORTING FORM for CLASS B BIOSOLIDS

Please fill out the 10 page form completely and mail the completed 10 page form to:

Louisiana Department of Environmental Quality
Office of Environmental Services
Water Permits Division
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

Name of Facility:		Contact Person:	
Agency Interest#:		Contact Telephone Number:	
Permit#:		E-mail Address:	
TEMPO Identification#:		Transporter/Hauler Registration#:	
Physical Address of Sewage Sludge Treatment Facility:			
Physical Address of Class B Biosolids Land Application Site:			

(1) DATE OF REPORT: _____

(2) REPORTING PERIOD: From: _____ To: _____

(3) **TYPE OF MATERIAL:** Indicate the Type of Material, annual amount received (prior to the material being prepared) and the annual amount prepared that was accepted and prepared at your facility for the Reporting Period indicated in Number (2) above (Check all that applies):

Sewage Sludge	<input type="checkbox"/>	Amount Generated/Received: _____	Units: _____
		Amount Prepared: _____	Units: _____
		Amount Land Applied: _____	Units: _____
Domestic Septage	<input type="checkbox"/>	Amount Generated/Received: _____	Units: _____
		Amount Prepared: _____	Units: _____
		Amount Land Applied: _____	Units: _____
Portable Toilet Waste	<input type="checkbox"/>	Amount Generated/Received: _____	Units: _____
		Amount Prepared: _____	Units: _____
		Amount Land Applied: _____	Units: _____
Grease Waste	<input type="checkbox"/>	Amount Generated/Received: _____	Units: _____
		Amount Prepared: _____	Units: _____
		Amount Land Applied: _____	Units: _____

(4) **TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP):** ☐ PASS ☐ FAIL

(NOTE: Records of the Results of Laboratory Analysis for TCLP shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility. The records shall be furnished and/or made readily available to the Administrative Authority or DEQ personnel upon request.)

(5) **POLYCHLORINATED BIPHENYLS (PCB):** (NOTE: Check all the boxes that apply.)

☐ The results of the PCB Laboratory Analysis are less than 50 mg/kg of Total Solids (dry weight basis)?

☐ The results of the PCB Laboratory Analysis are less than 10 mg/kg of Total Solids (dry weight basis)?

(NOTE: Results of Laboratory Analysis for Total PCB shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility.)

(6) MONITORING FREQUENCY:

Indicate the Monitoring Frequency as stated in the Permit:

☐ Once/Year ☐ Once/Quarter ☐ Once/Sixty Days ☐ Once/Month

(7) POLLUTANTS:

Indicate the treatment level for the pollutants in the Class B Biosolids and furnish the information required after each selection:

☐ **Table 1: POLLUTANTS - Ceiling Concentrations and Table 2: POLLUTANTS- Cumulative Pollutant Loading Rates**

Furnish the information in Tables 1 & 2 below.

Furnish the information in LAC 33:IX.7303.J.2.d.ii if ninety (90) percent or more of any of the Cumulative Pollutant Loading Rates are reached at a land application site (Calculate the Cumulative Pollutant Loading Rate for the Land Application Site utilizing **Appendix A: Worksheet for the Tracking of "Cumulative Pollutant Loading Rate"** that is provided at the end of this form.).

☐ **Table 1: POLLUTANTS - Ceiling Concentrations and Table 3: POLLUTANTS - Pollutant Concentrations**

Furnish the information in Tables 1 & 3 below.

☐ **Table 1: POLLUTANTS - Ceiling Concentrations and Table 4: POLLUTANTS - Annual Pollutant Loading Rate**

Furnish the information in Tables 1 & 4 below. NOTE: Table 4 of LAC 33:IX.7303.E must only be utilized if the Biosolids are sold or given away in a bag or other container for land application purposes. Additionally, the "Annual Whole Biosolids Application Rate" must be submitted with this Form. The procedure used to determine the "Annual Whole Biosolids Application Rate" is presented in LAC 33:IX.7397 – Appendix K.

Enter the results of the Laboratory Analysis for each pollutant listed in the applicable Tables below for the required month or months of sampling and analysis indicated in the permit:

MONTHS	Table 1: POLLUTANTS - Ceiling Concentrations (TABLE 1 of LAC 33:IX.7303.E) NOTE: Results must be in mg/kg on a dry weight basis								
	Arsenic	Cadmium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Zinc
	January	February	March	April	May	June	July	August	September
October									
November									
December									

MONTHS	Table 2: POLLUTANTS - Cumulative Pollutant Loading Rates (TABLE 2 of LAC 33:IX.7303.E) NOTE: Results must be in kg/hectare							
	Arsenic	Cadmium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
	January	February	March	April	May	June	July	August
September								
October								
November								
December								

MONTHS	Table 3: POLLUTANTS - Pollutant Concentrations (TABLE 3 of LAC 33:IX.7303.E) NOTE: Results must be in mg/kg on a dry weight basis							
	Arsenic	Cadmium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
	January	February	March	April	May	June	July	August
September								
October								
November								
December								

MONTHS	Table 4: POLLUTANTS - Annual Pollutant Loading Rates (TABLE 4 of LAC 33:IX.7303.E) NOTE: Results must be in kg/hectare per 365-day period							
	Arsenic	Cadmium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
	January	February	March	April	May	June	July	August
September								
October								
November								
December								

(9) PATHOGENS

Indicate the Alternative utilized to meet the Class B Pathogen levels and maintain or submit the required information for each Alternative selected:

☐ Alternative 1: Pathogen Testing

a. Indicate the Pathogen Reporting Unit for the results provided in the table entitled "Pathogens" below:

☐ Colony Forming Units ☐ Most Probable Number

b. Indicate in Table 5 below entitled "Pathogens", the Geometric Mean of seven (7) representative samples taken for the required month or months of sampling and analysis indicated in the permit.

MONTHS	Table 5: PATHOGENS (Geometric Mean of seven representative samples)	
	Pathogen Reading (Count)	Reporting Unit (CFU or MPN)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

☐ Alternative 2: Processes to Significantly Reduce Pathogens (PSRP)

Indicate the PSRP utilized to attain the Class B Pathogen levels by checking all the boxes that apply:

☐ Aerobic Digestion – Records for "Number of Days" of aerobic treatment and for "temperature" during aerobic treatment shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility. The records shall be furnished and/or made readily available to the Administrative Authority or DEQ personnel upon request.

☐ Air Drying – Records for the "Number of Months" of air drying and for the "temperature" during these months shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility. The records shall be furnished and/or made readily available to the Administrative Authority or DEQ personnel upon request.

☐ Anaerobic Digestion - Records for "Number of Days" of anaerobic treatment and for "temperature" during anaerobic treatment shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility. The records shall be furnished and/or made readily available to the Administrative Authority or DEQ personnel upon request.

☐ Composting – Indicate the compost method by checking the appropriate box:

☐ Within-vessel

☐ Static aerated pile

☐ Windrow

Records for "Number of Days" of composting and for "temperature" during composting shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility. The records shall be furnished and/or made readily available to the Administrative Authority or DEQ personnel upon request.

☐ Lime Stabilization

Provide the information requested in **Table 6: Time and pH Information** for the sampling time required in the permit:

MONTHS	Table 6: Time and pH Information		
	Beginning Time of Lime Stabilization	Time of pH Reading	pH Reading (°F)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

☐ **Alternative 3:** Sewage Sludge that is treated by a process that is equivalent to a PSRP (A process approved by the EPA Pathogen Equivalency Committee.).

When this option is chosen for permitting purposes, any additional information necessary to demonstrate Class B Pathogen attainment will be indicated here by the Administrative Authority on a case by case basis based upon equivalency requirements and as required as a part of the permit.)

(9) VECTOR ATTRACTION REDUCTION:

Select all of the methods utilized at this facility to demonstrate Vector Attraction Reduction and provide the requested information:

(a) ☐ Volatile Solids Reduction

Select One → ☐ Aerobic Digestion ☐ Anaerobic Digestion

Was Volatile Solids reduced by at least 38%?

☐ YES → If "YES", provide the information requested in **Table 7: Volatile Solids Reduction** for the sampling periods required in the permit:

MONTHS	Table 7: Volatile Solids Reduction			
	Volatile Solids Reading prior to Treatment	Volatile Solids Reading after Treatment	Volatile Solids Reduction (%)	Total Solids (%)
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

☐ NO → If "NO", provide the information requested in Table 8: Volatile Solids Reduction – Sub-sample in Laboratory for the sampling periods required in the permit:

MONTHS	Table 8: Volatile Solids Reduction – Sub-sample in Laboratory			
	Initial Volatile Solids Reading after Treatment	Number of Days Sampled in Laboratory	Volatile Solids Reading after further reduction of a sample in the Laboratory	Further Volatile Solids Reduction Reading (%)
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

(b) ☐ SPECIFIC OXYGEN UPTAKE RATE (SOUR)

Provide the information requested in **Table 9: SOUR TEST** for the sampling periods required in the permit:

MONTHS	Table 9: SOUR TEST [milligrams O ² /hr/gram of total solids (dry weight basis)]	
	SOUR (Reading)	Temperature (°C)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

(c) ☐ Aerobic Treatment

Provide the information requested in **Table 10: AEROBIC TREATMENT** for the sampling periods required in the permit:

MONTHS	Table 10: AEROBIC TREATMENT			
	Number of Days of Aerobic Treatment	Minimum Temperature Reading (°C)	Maximum Temperature Reading (°C)	Average Temperature Reading (°C)
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

(c) ☐ Alkaline Treatment

Provide the information requested in **Table 11: ALKALINE TREATMENT** for the sampling periods required in the permit:

MONTHS	Table 11: ALKALINE TREATMENT				
	Enter the Time and Date at Initial Alkaline Treatment	Enter Time and Date of 1 st pH Reading (At 2 hours after initial treatment)	Enter 1 st pH Reading	Enter Time and Date of 2 nd pH Reading (22 hours after initial treatment)	Enter 2 nd pH Reading
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

(e) ☐ Percent Solids

Is the sewage sludge subjected to any type of treatment after removal (wasted) from the sanitary wastewater treatment process? (Check either the Box labeled as "YES" or the Box labeled as "NO" and Provide the information requested.)

☐ YES Indicate the type of treatment process: _____

Provide the information requested in **Table 12: PERCENT SOLIDS – Stabilized Solids** for the sampling periods required in the permit.

MONTHS	Table 12: PERCENT SOLIDS – Stabilized Solids		
	Moisture Content	Total Solids	Percent Solids
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

☐ NO - Provide the information requested in **Table 13: PERCENT SOLIDS – Unstabilized Solids** for the sampling periods required in the permit.

MONTHS	Table 13: PERCENT SOLIDS – Unstabilized Solids		
	Moisture Content	Total Solids	Percent Solids
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

(f) ☐ Injection of Biosolids

Records for each Biosolids Land Application Site on “Beginning Time of Injection of the Biosolids into the Soil” and on “Ending Time of Injection of the Biosolids into the Soil” shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility. The records shall be furnished and/or made readily available to the Administrative Authority or DEQ personnel upon request.

(g) ☐ Incorporation of Biosolids

Records for each Biosolids Land Application Site on “Beginning Time of the Land Application of the Biosolids” and on “Time of Incorporation of the Biosolids into the Soil” shall be kept on file at a protective and easily accessed location at the sewage sludge or sanitary wastewater treatment facility. The records shall be furnished and/or made readily available to the Administrative Authority or DEQ personnel upon request.

(10) **SOIL TESTING REQUIREMENTS:** If a Soil Testing Program is utilized as a substitution for a Full Nutrient Management Plan as allowed by LAC 33:IX.7303.D.4.b., enter the results for each parameter in **Table 14** for the month the sample or samples were taken for each permitted land application site (Make additional copies of **Table 14** if necessary.):

MONTHS	Table 14: Soil Nutrient Sampling (Sample for each Land Application Site)					
	Name of Site:					
	Total Kjeldahl nitrogen	Total nitrates	Total nitrites	Total phosphorus	Total potassium	pH
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

(11) CERTIFICATION STATEMENT, SIGNATURE, AND DATE OF SIGNATURE:

Insert the "Certification Statement(s) provided in Part II of your Sewage Sludge and Biosolids Use or Disposal permit and Sign and Date below:

Signature: _____

Date signed: _____

APPENDIX A: Worksheet for the Tracking of "Cumulative Pollutant Loading Rate"

TRACKING CUMULATIVE POLLUTANT LOADING RATES (ON LAND APPLICATION SITES)											
1. Site Name and Location (Physical Address or Latitude/Longitude)		2. Application Rate (Provide the "Application Rate" in metric tons of Class B Biosolids per hectare) ¹		3. Date of Application of Class B Biosolids							
Pollutant	Regulatory Allowable "Cumulative Pollutant Loading Rates" (kg/ha)		Calculation for Determining Cumulative Loading								
	100%	90%	Concentration in Class B Biosolids (mg/kg) (Dry Weight)	X	Class B Biosolids Application Rates (M.T./ha) (Taken from Item 2 above)	X	0.001 (conversion factor)	+	Amount of Pollutants Applied Since July 20, 1993 (kg/ha)	=	Total Amount of Pollutant Applied to Date (kg/ha)
Arsenic	41	37		X		X		+		=	
Cadmium	39	35		X		X		+		=	
Chromium	3,000	2,700		X		X		+		=	
Copper	1,500	1,350		X		X		+		=	
Lead	300	270		X		X		+		=	
Mercury	17	15		X		X		+		=	
Nickel	420	378		X		X		+		=	
Selenium	100	90		X		X		+		=	
Zinc	2,800	2,520		X		X		+		=	